عنوان مقاله:
Bio-adhesive and cell therapy

محل انتشار:
اولین کنگره بین المللی مهندسی بافت و پزشکی بازساختی ایران (سال: 1397)

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خلاصه مقاله:
IntroductionMedical science today is aimed at increasing the health level in the community and increasing the therapeutic efficacy of chronic diseases, especially those caused by cellular defects. Towards an attractive and ultra-precise treatment option with high-speed treatment under the name of cell therapy, this knowledge, despite the progress to date, has not yet become public for a number of reasons. The most important problems in cell therapy are the lack of proper adhesion and timely cells are at the target point. Which is commonly used in stitching, which has problems especially in domestic tissue, Recently, in order to overcome the existing challenges, In these field, Bio-adhesive are important, bio-adhesive was first introduced in 1970 to describe the phenomenon associated with the ability Some hydrocolloids and biotic and synthetic macromolecules were used to adhere to tissue engineering, stem cell, and reparative medicine.ObjectivesThe aim of this study is to investigate advantages of bio-adhesive in medical science, especially in the field of tuberculosis, given the potential challenges in this regard.MethodsIn this research, collecting information by searching for the keywords of the cell therapy and the leading challenges, the Advantages and disadvantages of Biological adhesives in medicine, treatable diseases with cell therapy this option invalid databases, as well as part of the data, according to the experience of studies in The field was done.ResultsThe results of the studies show that adhesives are used in tissue engineering and stem cell technology and in regenerative medicine as the most effective way of sticking human tissues without stitching, using in dentistry.ConclusionDue to the very high characteristics of bio-adhesive including high stability and high degradability without toxicity can be very productive in the field of regenerative medicine and cell therapy.

کلمات کلیدی:
Bio-adhesive, Cell therapy and challenges, Regenerative medicine